

ABSTRACT OF THE DISCLOSURE

This invention relates to a scanning ultrasound detection device using two-wave mixing in photorefractive crystal interferometry. An interferometer with two-wave mixing in photorefractive crystal, and
5 cooperates with a confocal lenses module to perform a scan and inspection of the surface of a target. A rotating unit is used for directing a signal beam for detection to be incident upon different locations of the target. The confocal lens module is used to compensate any changes of reflection path caused by the signal beam having different incident angles. Hence, a
10 reflected signal beam and a reference beam can strike on a photo detector.